

in coronary artery bypass operations using neural networks (Richard P. Lippmann, Linda Kukolich, and David Shahian). Comparing the prediction accuracy of artificial neural networks and other statistical models for breast cancer survival (Harry B. Burke, David B. Rosen, and Philip H. Goodman). Learning to play the game of chess (Sebastian Thrun). A mixture model system for medical and machine diagnosis (Magnus Stensmo and Terrence J. Sejnowski). Inferring ground truth from subjective labelling of Venus images (Padhraic Smyth, Usama Fayyad, Michael Burl, Pietro Perona, and Pierre Baldi). The use of dynamic writing information in a connectionist on-line cursive handwriting recognition system (Stefan Manke, Michael Finke, and Alex Waibel). Adaptive elastic input field for recognition improvement (Minoru Asogawa). Pairwise neural network classifiers with probabilistic outputs (David Price, Stefan Knerr, Léon Personnaz, and Gérard Dreyfus). Interference in learning internal models of inverse dynamics in humans (Reza Shadmehr, Tom Brashers-Krug, and Ferdinando Mussa-Ivaldi). Computational structure of coordinate transformations: A generalization study (Zoubin Ghahramani, Daniel M. Wolpert, and Michael I. Jordan). Author index. Keyword index.

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Holes and Other Superficialities. By Roberto Casati and Achille C. Varzi. MIT Press, Cambridge, MA. (1994). 256 pages. \$15.00.

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Acknowledgments. 1. Introduction. 2. Superficial particulars. 3. Immaterial bodies. 4. Hollows, tunnels, cavities, and more. 5. Fillers and skins. 6. The natural history of discontinuities. 7. Parts and holes. 8. Causality, shapes, and solidity. 9. Sameness and non-substance. 10. Ways of holmaking. 11. Hole detection. 12. The field of emptiness. Appendix: Outline of a theory. Puzzles and exercises. Further reading. Index.

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Foreword by Richard C. Leone. Preface. 1. The intersections of science and law. 2. Changing knowledge, changing rules. 3. The law's construction of expertise. 4. The technical discourse of government. 5. Law in the republic of science. 6. Toxic torts and the politics of causation. 7. Legal encounters with genetic engineering. 8. Family affairs. 9. Definitions of life and death. 10. Toward a more reflective alliance. Notes. Index.

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